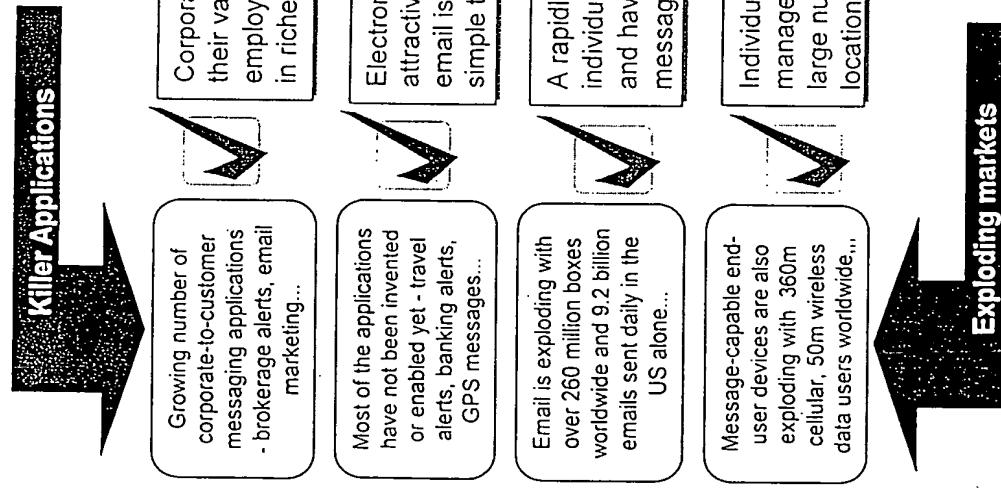
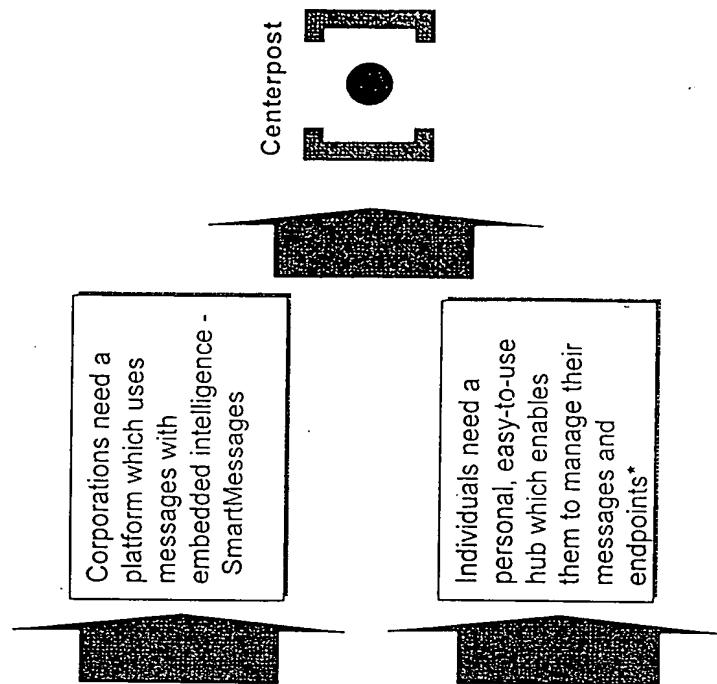




## MARKET NEED FOR CENTERPOST



*Fig. 1*



\*Endpoints are email boxes, digital cellular phones, pagers, instant messages, fax machines, telephones, PDAs, and other such devices

**Patent Application for Individual XML Message Processing Platform**

Inventors: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 2 of 37

## ELECTRONIC MESSAGING WITHOUT CENTERPOST - EXAMPLE

### Message Senders\*

Corporation A  
(e.g., Airline)



Corporation B  
(e.g., Brokerage)



Point-to-point  
solutions

### Message Receiver A

Work Email  
Home Email  
Wireless Phone

Wireless  
not  
integrated



### Message Receiver B



Address overload  
or senders

Individual A



Individual B



Individuals configure messages at  
multiple corporate sites

\* All kinds of two-way applications exist but have not been shown for simplicity

*Fig. 2*

Fig. 2

## ELECTRONIC MESSAGING WITH CENTERPOST - EXAMPLE

### Message Senders\*

Corporation A  
(e.g., Airline)



**Patent Application for Individual XML Message Processing Platform**  
**Inventors:** Juergen Stark, et al.  
**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499  
**Sheet No.** 3 of 37

Corporation B  
(e.g., Brokerage)



Email →  
SmartMessages ←

### Message Receiver A

Work Email



Home Email



Optional replacement  
of existing email boxes

Wireless Phone



Automatic  
Intelligent routing

SmartMessages  
instead of email

Centerpost

Integration of  
multiple wireless  
devices

### Message Receiver B

Work Email



Home Email



Wireless Phone



Pager



Home Fax



New endpoints  
available online

Individuals can configure  
messages in single  
location

Single address for  
all senders

Device-specific  
formatting

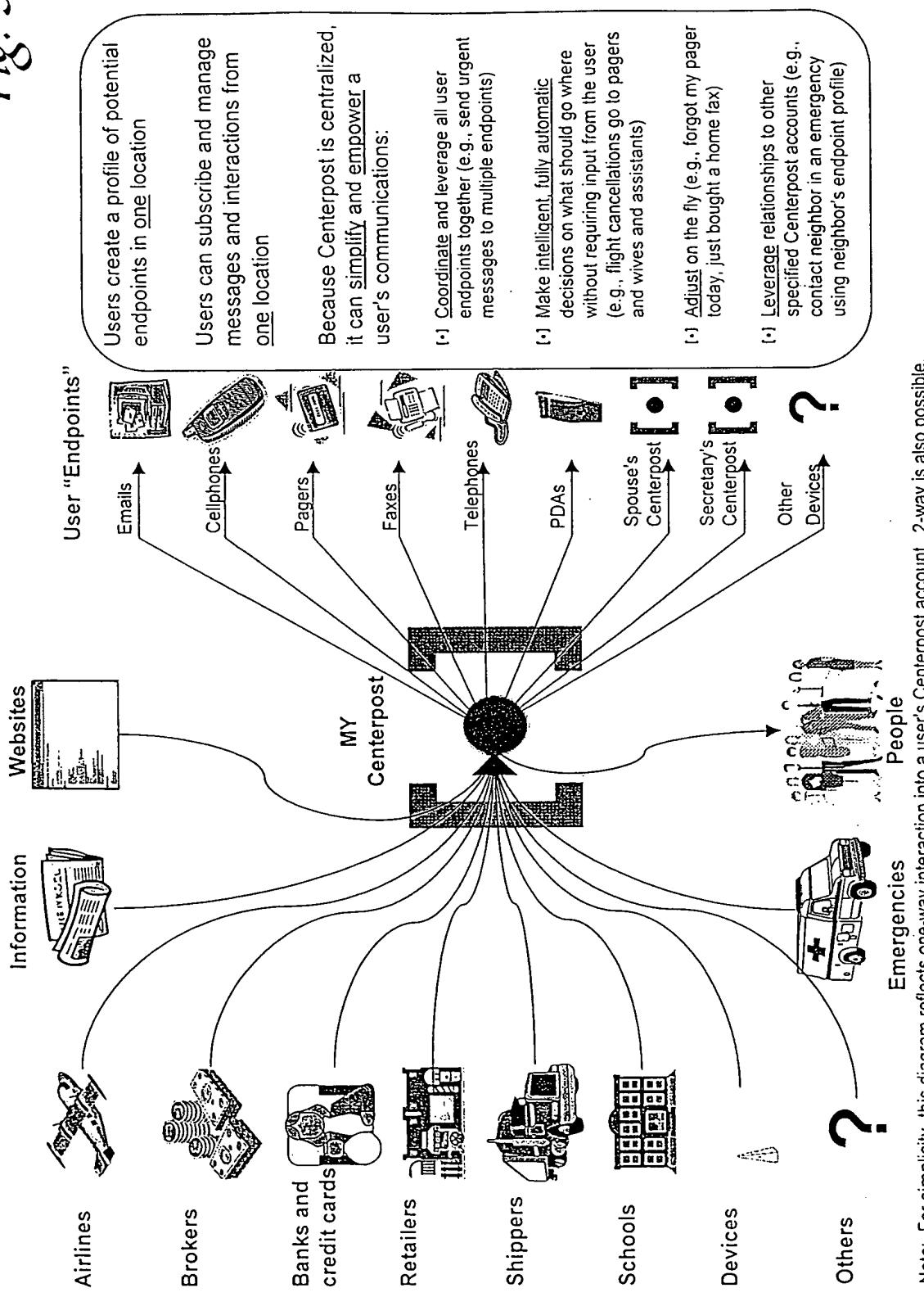
Fig. 3A

\* All kinds of two-way applications exist but have not been shown for simplicity

# THE POWER OF A CENTRALIZED, USER-CENTRIC HUB FOR CONSUMERS

*Fig. 3B*

**Patent Application for Individual XML Message Processing Platform**  
 Inventors: Juergen Stark, et al.  
 Attorney Docket No. 11822-8 Serial No. 09/661,499  
 Sheet No. 4 of 37



## EXAMPLE CENTERPOST INTERACTIONS FOR AN INDIVIDUAL SUBSCRIBER

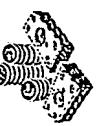
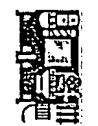
	CONTENT	EXAMPLE PROCESSING RULES (for 1 subscriber)	2-WAY POTENTIAL
Airlines		<ul style="list-style-type: none"> <li>Booking confirmation</li> <li>Destination weather forecast</li> <li>Flight delay / cancellation</li> <li>Gate assignments</li> <li>Destination traffic alert</li> <li>Frequent flyer posting</li> </ul>	<ul style="list-style-type: none"> <li>Send to assistant's email; update "folio" on Centerpost</li> <li>Send to home fax on evening prior to trip</li> <li>Send to pager and copy assistant's fax; to mobile phone on weekends</li> <li>Send to pager; update PalmPilot schedule</li> <li>Send to pager; send to assistant's fax</li> <li>Consolidate and send weekly summary to home email</li> </ul>
Brokers		<ul style="list-style-type: none"> <li>Portfolio news</li> <li>Closing prices</li> <li>Stock alerts</li> <li>Trade alerts</li> <li>Trade expiration</li> </ul>	<ul style="list-style-type: none"> <li>Send to home email; send urgent taglines to paper</li> <li>Send chart to work email; update "folio" on Centerpost; enable query</li> <li>Send to home email; send to PCS phone for extreme movements</li> <li>Send to pager; request shares to buy/sell</li> <li>Send to home email</li> </ul>
Banks and credit cards		<ul style="list-style-type: none"> <li>Low balance</li> <li>Unusual activity</li> <li>Account postings</li> </ul>	<ul style="list-style-type: none"> <li>Send to home fax</li> <li>Send to pager; call home phone</li> <li>Update "folio" on Centerpost; update Quicken register</li> </ul>
Retailers		<ul style="list-style-type: none"> <li>Special promotions</li> <li>Time sensitive promotions</li> <li>Ordered items arrived</li> <li>Ordered items shipped</li> </ul>	<ul style="list-style-type: none"> <li>Consolidate and send weekly summary on Friday's to home email</li> <li>Send to home email; delete when expired</li> <li>Send to home fax</li> <li>Send to home fax</li> </ul>
Shippers		<ul style="list-style-type: none"> <li>Package signed for</li> <li>Package tracking</li> </ul>	<ul style="list-style-type: none"> <li>Send to work email "Shipments" folder; send to assistant's email</li> <li>Update "folio" on Centerpost; enable query to folio</li> </ul>
Schools		<ul style="list-style-type: none"> <li>Emergency contact</li> <li>Test scores</li> <li>School events</li> </ul>	<ul style="list-style-type: none"> <li>Send to all devices; also send to wife's Centerpost account</li> <li>Update "folio" on Centerpost</li> <li>Send to home email</li> </ul>
Technicians		<ul style="list-style-type: none"> <li>Trouble alert</li> <li>Maintenance notification</li> <li>Scheduling message</li> </ul>	<ul style="list-style-type: none"> <li>Follow escalation schedule; update central "folio"</li> <li>Send to work email</li> <li>Send to pager</li> </ul>
Devices		<ul style="list-style-type: none"> <li>Security system alert</li> <li>Power outage</li> <li>Equipment/network alarms</li> <li>GPS transmission</li> </ul>	<ul style="list-style-type: none"> <li>Will respond</li> <li>False alarm</li> <li>Will respond</li> <li>Update map on work PC</li> </ul>
People		<ul style="list-style-type: none"> <li>Email</li> <li>Address update (from assistant)</li> <li>Schedule change (from assistant)</li> </ul>	<ul style="list-style-type: none"> <li>Reply to email</li> </ul>

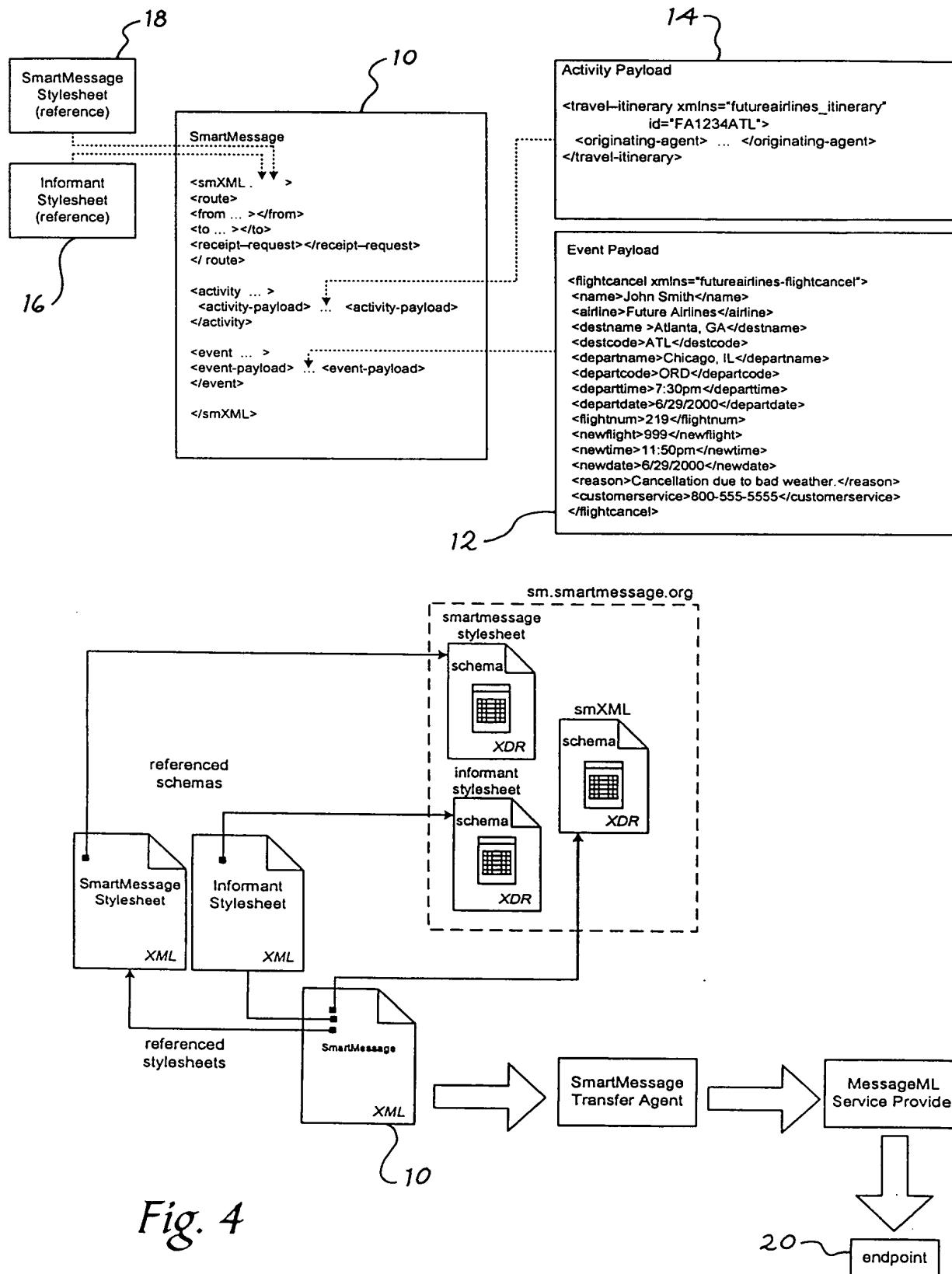
Fig. 3C

**Patent Application for Individual XML Message Processing Platform**

Inventors: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 6 of 37



*Fig. 4*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

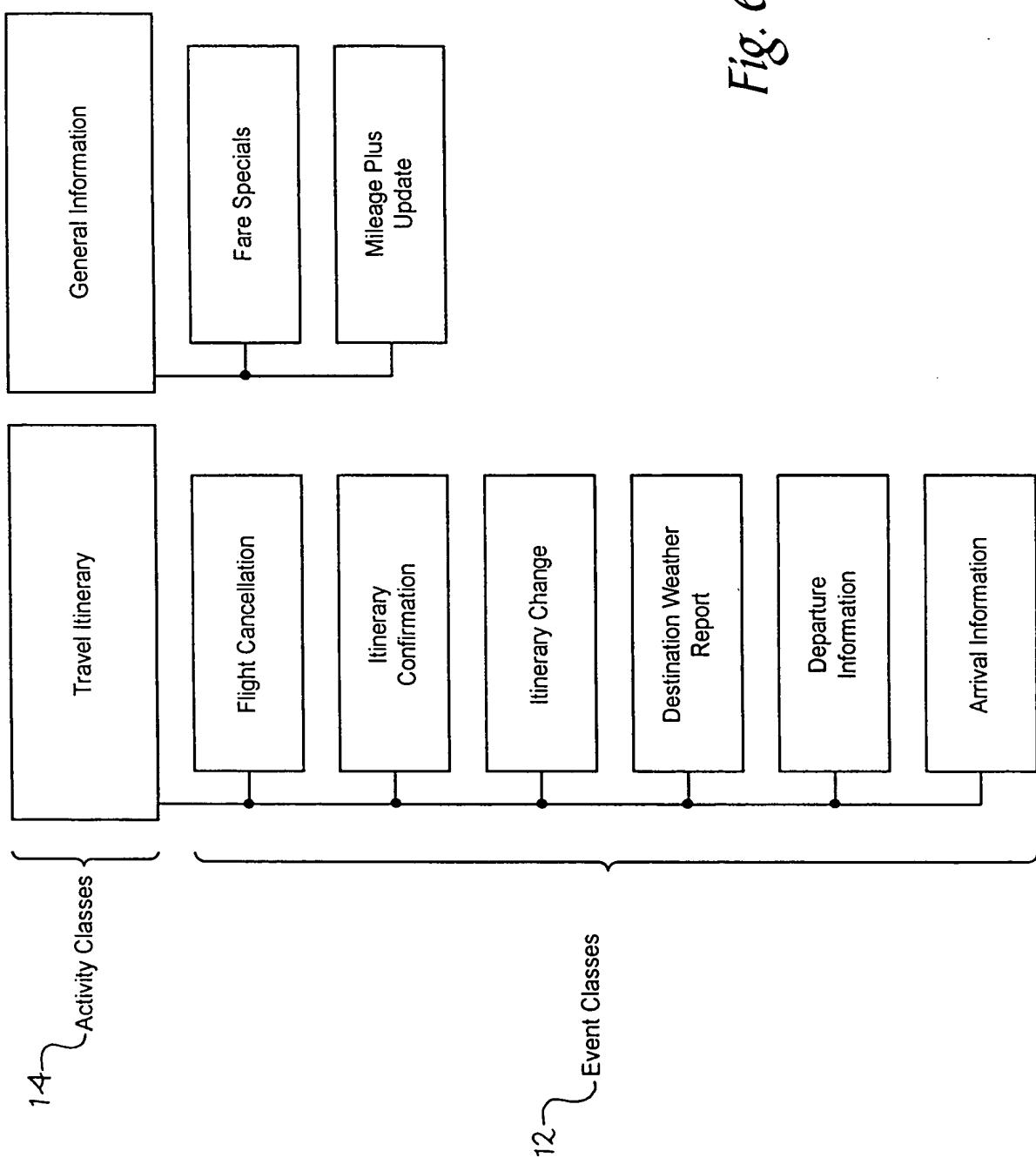
**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 7 of 37**

```
- <smXML xmlns="x-
  schema:http://www.devpost.com/schemas/SM/smXMLver1.1.xdr" protocol-
  version="1.1" smartmessage-id="309324dadfAA" smartmessage-date="2000-04-
  21T14:30:55" informant-stylesheet-class="http://www.centerpost.com/"
  informant-stylesheet-version="definitions/centerpostInformant11.xml"
  smartmessage-stylesheet-class="http://www.devpost.com/" smartmessage-
  stylesheet-version="definitions/centerpostDef2.xml">
- <route>
  <from reply-protocol="smtp" reply-address="admin@centerpost.com" from-
    address="cgoren@centerpost.com" />
  <to to-type="to" to-protocol="smtp" to-
    address="jbrunning@centerpost.com" />
  <receipt-request receipt-type="nak" receipt-event="processed" receipt-
    protocol="smtp" receipt-address="receipts@centerpost.com" />
</route>
- <activity activity-class="Welcome" activity-id="User9999" activity-
  url="http://www.centerpost.com" activity-title="Welcome to Centerpost"
  activity-status="Your account is now active." closed-date="2000-04-
  22T14:30:55">
- <activity-payload>
  <welcome xmlns="InformantsSchema" />
</activity-payload>
</activity>
- <event event-class="Account Created" event-id="User9999" event-
  url="http://www.centerpost.com/userinfo.asp" event-description="Your new
  Centerpost account is now active for your use.">
- <event-payload>
  <accountcreation xmlns="InformantsSchema" />
</event-payload>
</event>
</smXML>
```

© 2000 Centerpost Corp.

*Fig. 5*



**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 9 of 37**

```
- <smInformantStylesheet xmlns="x-
schema:http://www.devpost.com/schemas/Def/smInformantStylesheetSchema1.1.
informant-name="Centerpost.com" informant-stylesheet-
class="http://www.centerpost.com/" informant-stylesheet-
version="definitions/InformantStylesheet1.1.xml" informant-
description="Centerpost.com, your messaging center." logo-
url="http://www.centerpost.com/images/centerpost.gif" home-
url="http://www.centerpost.com" informant-category="personal">
<valid-transport-source transport-source="*@centerpost.com" transport-
protocol="smtp" />
<valid-transport-source transport-source="*@demopost.com" transport-
protocol="smtp" />
<valid-transport-source transport-source="*@devpost.com" transport-
protocol="smtp" />
<valid-transport-source transport-protocol="http" transport-
source="63.140.145.*" />
</smInformantStylesheet>
```

© 2000 Centerpost Corp.

*Fig. 7A*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 10 of 37

```
- <smSmartMessageStylesheet xmlns="x-
  schema:http://www.devpost.com/schemas/def/smstylesheetschema1.1.xdr"
  smartmessage-stylesheet-class="http://www.devpost.com/" smartmessage-
  stylesheet-version="definitions/centerpostdef2.xml">
  - <activity-class activity-name="Web Post" activity-duration="hours" event-
    frequency="once">
    <activity-payload-schema />
  - <activity-xsl-default>
    <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
  </activity-xsl-default>
  - <activity-xsl-endpoint endpoint-type="browser">
    <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
  </activity-xsl-endpoint>
  - <event-class event-name="Emergency Reach" content="fyi"
    sensitivity="private" reach="individual" immediacy="minutes"
    expiration="minutes" frequency="once" context="personal">
    - <event-payload-schema>
      - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
        microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
        com:datatypes">
        - <ElementType name="Emergency" content="eltOnly" order="seq">
          <element type="from" />
          <element type="emergencySummary" />
          <element type="emergencyDetail" />
          <element type="ContactName" />
          <element type="ContactInfo" />
        </ElementType>
        <ElementType name="from" content="textOnly" />
        <ElementType name="emergencySummary" content="textOnly" />
        <ElementType name="emergencyDetail" content="textOnly" />
        <ElementType name="ContactName" content="textOnly" />
        <ElementType name="ContactInfo" content="textOnly" />
      </Schema>
    </event-payload-schema>
  - <event-xsl-default>
    - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="EmergencyReach" />
    </xsl_default:template>
  - <xsl_default:template match="EmergencyReach">
    This is an Emergency Reach Centerpost SmartMessage!
    From:
    <xsl_default:value-of select="from" />
    Contact:
    <xsl_default:value-of select="ContactName" />
    Contact Information:
    <xsl_default:value-of select="ContactInfo" />
    Emergency Summary:
    <xsl_default:value-of select="emergencySummary" />
```

*Fig. 7B-1*

**Patent Application for Individual XML Message Processing Platform**

**Inventor:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 11 of 37

(More details may have be included in your folio) send a SmartMessage at: <http://www.centerpost.com/Post/>

```
</xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-default>
- <event-xsl-endpoint endpoint-type="html-email">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="EmergencyReach" />
    </xsl_default:template>
    - <xsl_default:template match="EmergencyReach">
      - <HTML>
        - <HEAD>
          <TITLE />
        </HEAD>
        - <BODY>
          - <FONT face="arial,helvetica">
            - <table cellpadding="0" cellspacing="0" border="0">
              - <tr>
                - <td>
                  
              </b>
              <BR />
              <BR />
              <BR />
              - <TABLE cellpadding="0" cellspacing="0" border="0">
                - <TR>
                  <TD>Message title:</TD>
                </TR>
                - <TR>
                  - <TD>
                    - <FONT color="red">
                      <xsl_default:value-of
                        select="emergencySummary" />
                    </FONT>
                  </TD>
                </TR>
                - <TR>
                  - <TD>
                    <BR />
                  </TD>
                </TR>
                - <TR>
```

*Fig. 7B-2*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 12 of 37**

```
- <TD>
    Message Text:
    <BR />
  </TD>
</TR>
- <TR>
- <TD>
    - <FONT color="red">
        <xsl_default:value-of
            select="emergencyDetail" />
    </FONT>
  </TD>
</TR>
- <TR>
- <TD>
    <BR />
  </TD>
</TR>
- <TR>
- <TD>
    Please contact
    - <FONT color="red">
        <xsl_default:value-of
            select="ContactPerson" />
    </FONT>
  </TD>
</TR>
- <TR>
- <TD>
    at:
    - <FONT color="red">
        <xsl_default:value-of
            select="ContactInfo" />
    </FONT>
  </TD>
</TR>
</TABLE>
</FONT>
</BODY>
</HTML>
</xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
- <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
- <xsl_default:template match="/">
    <xsl_default:apply-templates select="EmergencyReach" />
</xsl_default:template>
- <xsl_default:template match="EmergencyReach">
- <HTML>
    <HEAD />
- <BODY>
```

*Fig. 7B-3*

**Patent Application for Individual XML Message Processing Platform**

**Inventor:** Juergen Stark, et al.

**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 13 of 37**

```
- <FONT face="arial,helvetica">
- <table cellpadding="0" cellspacing="0" border="0">
- <tr>
- <td>

</b>
<BR />
<BR />
<BR />
- <TABLE cellpadding="0" cellspacing="0" border="0">
- <TR>
<TD>Message title:</TD>
</TR>
- <TR>
- <TD>
- <FONT color="red">
<xsl_default:value-of
select="emergencySummary" />
</FONT>
</TD>
</TR>
- <TR>
- <TD>
<BR />
</TD>
</TR>
- <TR>
- <TD>
Message Text:
<BR />
</TD>
</TR>
- <TR>
- <TD>
- <FONT color="red">
<xsl_default:value-of
select="emergencyDetail" />
</FONT>
</TD>
</TR>
- <TR>
- <TD>
<BR />
</TD>
```

*Fig. 7B-4*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 14 of 37

```
</TR>
- <TR>
  <TD>Additional Contact Information:</TD>
</TR>
- <TR>
  - <TD>
    - <FONT color="red">
      <xsl_default:value-of
        select="ContactInfo" />
    </FONT>
  </TD>
</TR>
</TABLE>
</FONT>
</BODY>
</HTML>
</xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-endpoint>
</event-class>
- <event-class event-name="Hello" frequency="once" sensitivity="normal"
  reach="individual" content="statement" immediacy="days"
  expiration="days" context="personal">
- <event-payload-schema>
  - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
    microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
    com:datatypes">
    - <ElementType name="SayHello" content="eltOnly" order="seq">
      <element type="from" />
      <element type="shortHello" />
      <element type="longHello" />
    </ElementType>
    <ElementType name="from" content="textOnly" />
    <ElementType name="shortHello" content="textOnly" />
    <ElementType name="longHello" content="textOnly" />
  </Schema>
</event-payload-schema>
- <event-xsl-default>
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="SayHello" />
    </xsl_default:template>
    - <xsl_default:template match="SayHello">
      This is a 'Hello' message from
      <xsl_default:value-of select="from" />
      They wanted to say
      <xsl_default:value-of select="shortHello" />
      (More details may have be included in your folio) send a
      SmartMessage at: http://www.centerpost.com/Post/
    </xsl_default:template>
  </xsl_default:stylesheet>
</event-xsl-default>
```

*Fig. 7B-5*

**Patent Application for Individual XML Message Processing Platform**

**Inventor:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 15 of 37

```
- <event-xsl-endpoint endpoint-type="html-email">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="SayHello" />
    </xsl_default:template>
    - <xsl_default:template match="SayHello">
      - <HTML>
        - <BODY>
          - <FONT face="arial,helvetica">
            - <table cellpadding="0" cellspacing="0" border="0">
              - <tr>
                - <td>
                  
              </b>
              <BR />
              <BR />
              <BR />
              - <TABLE cellpadding="0" cellspacing="0" border="0">
                - <TR>
                  <TD>They wanted to say</TD>
                </TR>
                - <TR>
                  - <TD>
                    - <FONT color="red">
                      <xsl_default:value-of
                        select="longHello" />
                    </FONT>
                  </TD>
                </TR>
                - <TR>
                  - <TD>
                    <BR />
                  </TD>
                </TR>
              </TABLE>
              </FONT>
            </BODY>
          </HTML>
        </xsl_default:template>
      </xsl_default:stylesheet>
    </event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
```

*Fig. 7B-6*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 16 of 37

```
xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
- <xsl_default:template match="/">
  <xsl_default:apply-templates select="EmergencyReach" />
</xsl_default:template>
- <xsl_default:template match="EmergencyReach">
- <HTML>
- <BODY>
- <FONT face="arial,helvetica">
- <table cellpadding="0" cellspacing="0" border="0">
- <tr>
- <td>

</b>
<BR />
<BR />
<BR />
- <TABLE cellpadding="0" cellspacing="0" border="0">
- <TR>
  <TD>They wanted to say</TD>
</TR>
- <TR>
- <TD>
  - <FONT color="red">
    <xsl_default:value-of
      select="longHello" />
  </FONT>
</TD>
</TR>
- <TR>
- <TD>
  <BR />
</TD>
</TR>
</TABLE>
</FONT>
</BODY>
</HTML>
</xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-endpoint>
</event-class>
</activity-class>
- <activity-class activity-name="Announcements" activity-duration="ongoing" event-
frequency="monthly">
```

*Fig. 7B-7*

```
- <activity-xsl-default>
  <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
</activity-xsl-default>
- <event-class event-name="Welcome" frequency="once" sensitivity="normal"
  reach="individual" content="statement" immediacy="days"
  expiration="days" context="personal">
- <event-payload-schema>
  - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
    microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
    com:datatypes">
    - <ElementType name="Welcome" content="eltOnly" order="seq">
      <element type="EndpointName" />
      <element type="Message" />
    </ElementType>
    <ElementType name="EndpointName" content="textOnly" />
    <ElementType name="Message" content="textOnly" />
  </Schema>
</event-payload-schema>
- <event-xsl-default>
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="Announcements" />
    </xsl_default:template>
    <xsl_default:template match="Announcements">Welcome To
      Centerpost! Congratulations, you've just received your first
      smart message. This test message was sent to all of your
      endpoints</xsl_default:template>
  </xsl_default:stylesheet>
</event-xsl-default>
- <event-xsl-endpoint endpoint-type="html-email">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
      <xsl_default:apply-templates select="Announcements" />
    </xsl_default:template>
    - <xsl_default:template match="Announcements">
      - <html>
        - <head>
          <title />
        </head>
        - <body>
          - <table cellpadding="0" cellspacing="0" border="0">
            - <tr>
              - <td>
                
              </tr>
            </table>
            <br />
          - <font face="arial,helvetica" size="5" color="red">
```

*Fig. 7B-8*

```
<b>Welcome to centerpost!</b>
</font>
<br />
<br />
- <font face="arial,helvetica">
    Congratulations, you've just received your first
    smart message.
    <br />
    This test message was sent to all of your
    endpoints
    <br />
    <br />
    You can start sending your own SmartMessages,
    and learn more
    <br />
    about your account at the
    <a
        href="http://www.centerpost.com/postm/pmsg1.asp">Centerpost
        web page</a>
    <br />
</font>
</body>
</html>
</xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
- <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
- <xsl_default:template match="/">
    <xsl_default:apply-templates select="Announcements" />
</xsl_default:template>
- <xsl_default:template match="Announcements">
- <html>
    - <head>
        <title />
    </head>
- <body>
    - <table cellpadding="0" cellspacing="0" border="0">
        - <tr>
            - <td>
                
            </tr>
        </table>
        <br />
- <font face="arial,helvetica" size="5" color="red">
    <b>Welcome to centerpost!</b>
</font>
<br />
<br />
- <font face="arial,helvetica">
```

*Fig. 7B-9*

Congratulations, you've just received your first smart message.  
<br />  
This test message was sent to all of your endpoints  
<br />  
<br />  
You can start sending your own SmartMessages, and learn more  
<br />  
about your account at the  
<a href="<http://www.centerpost.com/postm/pmsg1.asp>">Centerpost web page</a>  
<br />  
</font>  
</body>  
</html>  
</xsl\_default:template>  
</xsl\_default:stylesheet>  
</event-xsl-endpoint>  
</event-class>  
</activity-class>  
</smSmartMessageStylesheet>

© 2000 Centerpost Corp.

*Fig. 7B-10*

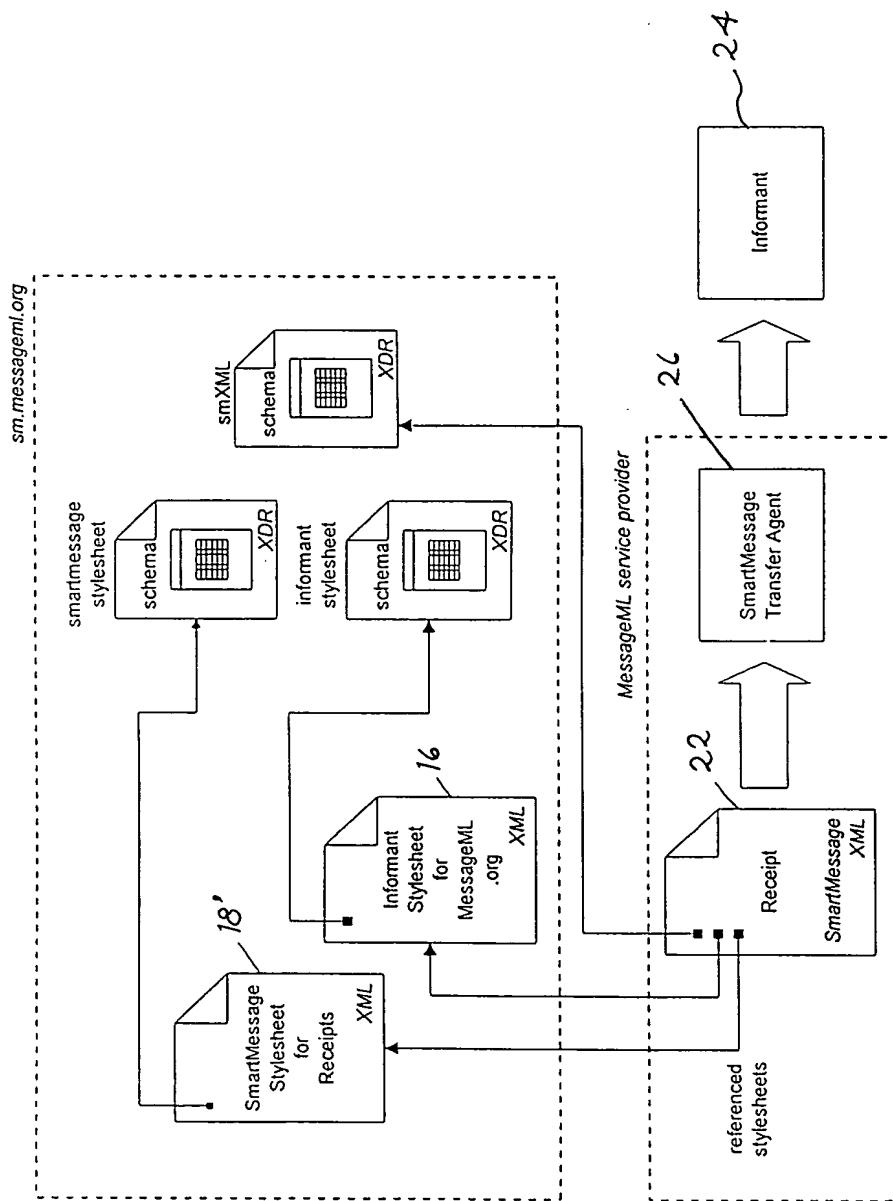
**Patent Application for Individual XML Message Processing Platform**

Inventors: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 20 of 37

*Fig. 8*



**Patent Application for Individual XML Message Processing Platform**

**Inventor:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 21 of 37

**Receipt SmartMessage Stylesheet**

```
<smSmartMessageStylesheet
    xmlns="x-schema:http://sm.smartmessage.org/schemas/stylesheets/smartmessage/v1-1.xdr"
    smartmessage-stylesheet-class="http://sm.smartmessage.org/stylesheets/receipts/"
    smartmessage-stylesheet-version="v1-0.xml">

    <activity-class
        activity-name="Receipts"
        activity-duration="ongoing"
        event-frequency="once">

        <activity-xsl-default>
            <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
                xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
                <xsl_default:template match="/" />
            </xsl_default:stylesheet>
        </activity-xsl-default>

        <event-class
            event-name="DeliveryStatus"
            purpose="information"
            sensitivity="normal"
            reach="individual"
            immediacy="days"
            frequency="daily"
            category="system">

            <event-payload-schema>
                <Schema name="deliverystatusreceipt.xdr"
                    xmlns="urn:schemas-microsoft-com:xml-data"
                    xmlns:dt="urn:schemas-microsoft-com:datatypes">
                    <ElementType name="receipt" content="eltOnly" order="seq">
                        <AttributeType name="receipt-event" dt:type="enumeration"
                            dt:values="delivery-status" default="delivery-status"/>
                        <AttributeType name="receipt-type" dt:type="enumeration"
                            dt:values="ack nak retry" default="nak"/>
                        <AttributeType name="receipt-date" dt:type="dateTime"
                            required="yes"/>
                        <AttributeType name="smartmessage-id" dt:type="string"
                            required="yes"/>
                        <AttributeType name="to-address" dt:type="string" required="yes"/>
                        <AttributeType name="endpoint-type" dt:type="enumeration"
                            dt:values="browser html-email text-email tiny-email fax
                            voice-phone instant-message" required="yes"/>
                        <AttributeType name="endpoint-address" dt:type="string"
                            required="yes"/>
                        <AttributeType name="last-attempt-date" dt:type="dateTime"
                            required="yes"/>
                        <AttributeType name="will-retry-attempt" dt:type="int"
                            required="yes"/>
                        <AttributeType name="will-retry-until" dt:type="dateTime"
                            required="yes"/>
                        <AttributeType name="next-retry-attempt" dt:type="dateTime"
                            required="yes"/>
                        <attribute type="receipt-event"/>
                        <attribute type="receipt-type"/>
                        <attribute type="receipt-date"/>
                        <attribute type="smartmessage-id"/>
                        <attribute type="to-address"/>
                        <attribute type="endpoint-type"/>
                        <attribute type="endpoint-address"/>
                        <attribute type="last-attempt-date"/>
                        <attribute type="will-retry-attempt"/>
                        <attribute type="will-retry-until"/>
                        <attribute type="next-retry-attempt"/>
                        <element type="error-info" minOccurs="0" maxOccurs="1"/>
                        <element type="extended-info" minOccurs="0" maxOccurs="1"/>
                    </ElementType>
                    <ElementType name="error-info" content="eltOnly" order="seq">
                </Schema>
            </event-payload-schema>
        </event-class>
    </activity-class>
</smSmartMessageStylesheet>
```

*Fig. 9A*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 22 of 37

```
<AttributeType name="error-class" dt:type="enumeration"
    dt:values="http https smtp smime platform-specific"
    default="smtp" required="yes"/>
<AttributeType name="error-code" dt:type="string" required="yes"/>
<AttributeType name="error-description" dt:type="string"
    required="yes"/>
<attribute type="error-class"/>
<attribute type="error-code"/>
<attribute type="error-description"/>
</ElementType>
<ElementType name="extended-info" content="eltOnly" order="seq"/>
</Schema>
</event-payload-schema>
<event-xsl-default>
    <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
        xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
        <xsl_default:template match="/">
            <xsl_default:apply-templates select="receipt"/>
        </xsl_default:template>
        <xsl_default:template match="receipt">
            <xsl_default:value-of select="@receipt-event"/>
            <xsl_default:value-of select="@receipt-type"/>
            <xsl_default:value-of select="@receipt-date"/>
            <xsl_default:value-of select="@smartmessage-id"/>
            <xsl_default:value-of select="@to-address"/>
            <xsl_default:value-of select="@endpoint-type"/>
            <xsl_default:value-of select="@endpoint-address"/>
            <xsl_default:value-of select="@last-attempt-date"/>
            <xsl_default:value-of select="@will-retry-attempt"/>
            <xsl_default:value-of select="@will-retry-until"/>
            <xsl_default:value-of select="@next-retry-attempt"/>
            <xsl_default:value-of select="error-info/@error-class"/>
            <xsl_default:value-of select="error-info/@error-code"/>
            <xsl_default:value-of select="error-info/@error-description"/>
        </xsl_default:template>
    </xsl_default:stylesheet>
</event-xsl-default>
</event-class>

<event-class
    event-name="Received"
    purpose="information"
    sensitivity="normal"
    reach="individual"
    immediacy="days"
    frequency="once"
    category="miscellaneous">

    <event-payload-schema>
        <Schema name="receivedreceipt.xdr"
            xmlns="urn:schemas-microsoft-com:xml-data"
            xmlns:dt="urn:schemas-microsoft-com:datatypes">
            <ElementType name="receipt" content="eltOnly" order="seq">
                <AttributeType name="receipt-event" dt:type="enumeration"
                    dt:values="received" default="received"/>
                <AttributeType name="receipt-type" dt:type="enumeration"
                    dt:values="ack nak" default="nak"/>
                <AttributeType name="receipt-date" dt:type="dateTime"
                    required="yes"/>
                <AttributeType name="smartmessage-id" dt:type="string"
                    required="yes"/>
                <AttributeType name="to-address" dt:type="string" required="yes"/>
                <AttributeType name="error-code" dt:type="string" required="no"/>
                <AttributeType name="error-description" dt:type="string"
                    required="no"/>
                <attribute type="receipt-event"/>
                <attribute type="receipt-type"/>
            </ElementType>
        </Schema>
    </event-payload-schema>
</event-class>
```

*Fig. 9B*

**Patent Application for Individual XML Message Processing Platform**

**Inventor:** Juergen Stark, et al.

**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 23 of 37**

```
<attribute type="receipt-date"/>
<attribute type="smartmessage-id"/>
<attribute type="to-address"/>
<element type="error-info" minOccurs="0" maxOccurs="1"/>
<element type="extended-info" minOccurs="0" maxOccurs="1"/>
</ElementType>
<ElementType name="error-info" content="eltOnly" order="seq">
    <AttributeType name="error-class" dt:type="enumeration"
        dt:values="http https smtp smime platform-specific"
        default="smtp" required="yes"/>
    <AttributeType name="error-code" dt:type="string" required="yes"/>
    <AttributeType name="error-description" dt:type="string"
        required="yes"/>
    <attribute type="error-class"/>
    <attribute type="error-code"/>
    <attribute type="error-description"/>
</ElementType>
<ElementType name="extended-info" content="eltOnly" order="seq"/>
</Schema>
</event-payload-schema>
<event-xsl-default>
    <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
        xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
        <xsl_default:template match="/">
            <xsl_default:apply-templates select="receipt"/>
        </xsl_default:template>
        <xsl_default:template match="receipt">
            <xsl_default:template match="receipt">
                Receipt Item
                receipt-event:      <xsl_default:value-of select="@receipt-event"/>
                receipt-type:       <xsl_default:value-of select="@receipt-type"/>
                receipt-date:       <xsl_default:value-of select="@receipt-date"/>
                smartmessage-id:   <xsl_default:value-of select="@smartmessage-id"/>
                to-address:         <xsl_default:value-of select="@to-address"/>
                error-class:        <xsl_default:value-of select="error-info/@error-class"/>
                error-code:         <xsl_default:value-of select="error-info/@error-code"/>
                error-description: <xsl_default:value-of select="error-info/@error-description"/>

                Receipt Specific Data:
                <xsl_default:value-of select="extended-info"/>
                    </xsl_default:template>
                </xsl_default:stylesheet>
            </xsl_default:template>
        </event-xsl-default>
    </event-class>

    <event-class
        event-name="Processed"
        purpose="information"
        sensitivity="normal"
        reach="individual"
        immediacy="days"
        frequency="once"
        category="miscellaneous">

        <event-payload-schema>
            <Schema name="processedreceipt.xdr"
                xmlns="urn:schemas-microsoft-com:xml-data"
                xmlns:dt="urn:schemas-microsoft-com:datatypes">
                <ElementType name="receipt" content="eltOnly" order="seq">
                    <AttributeType name="receipt-event" dt:type="enumeration"
                        dt:values="processed" default="processed"/>
                    <AttributeType name="receipt-type" dt:type="enumeration"
                        dt:values="ack nak" default="nak"/>
                    <AttributeType name="receipt-date" dt:type="dateTime"
                        required="yes"/>
                    <AttributeType name="smartmessage-id" dt:type="string"
                        required="yes"/>
                    <AttributeType name="to-address" dt:type="string" required="yes"/>
                    <AttributeType name="error-code" dt:type="string" required="no"/>
                    <AttributeType name="error-description" dt:type="string"
                        required="no"/>
                <attribute type="receipt-event"/>
            </Schema>
        </event-payload-schema>
    </event-class>
</event-class>
```

*Fig. 9C*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 24 of 37

```
<attribute type="receipt-type"/>
<attribute type="receipt-date"/>
<attribute type="smartmessage-id"/>
<attribute type="to-address"/>
<element type="error-info" minOccurs="0" maxOccurs="1"/>
<element type="extended-info" minOccurs="0" maxOccurs="1"/>
</ElementType>
<ElementType name="error-info" content="eltOnly" order="seq">
  <AttributeType name="error-class" dt:type="enumeration"
    dt:values="http https smtp smime platform-specific"
    default="smtp" required="yes"/>
  <AttributeType name="error-code" dt:type="string" required="yes"/>
  <AttributeType name="error-description" dt:type="string"
    required="yes"/>
  <attribute type="error-class"/>
  <attribute type="error-code"/>
  <attribute type="error-description"/>
</ElementType>
<ElementType name="extended-info" content="eltOnly" order="seq"/>
</Schema>
</event-payload-schema>
<event-xsl-default>
  <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    <xsl_default:template match="/">
      <xsl_default:apply-templates select="receipt"/>
    </xsl_default:template>
    <xsl_default:template match="receipt">

```

**Receipt Item**

```
  receipt-event:      <xsl_default:value-of select="@receipt-event"/>
  receipt-type:       <xsl_default:value-of select="@receipt-type"/>
  receipt-date:       <xsl_default:value-of select="@receipt-date"/>
  smartmessage-id:   <xsl_default:value-of select="@smartmessage-id"/>
  to-address:         <xsl_default:value-of select="@to-address"/>
  error-class:        <xsl_default:value-of select="error-info/@error-class"/>
  error-code:         <xsl_default:value-of select="error-info/@error-code"/>
  error-description: <xsl_default:value-of select="error-info/@error-description"/>
```

**Receipt Specific Data:**

```
  <xsl_default:value-of select="extended-info"/>
    </xsl_default:template>
  </xsl_default:stylesheet>
</event-xsl-default>
</event-class>
</activity-class>
</smSmartMessageStylesheet>
```

© 2000 Centerpost Corp.

*Fig. 9D*

**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 25 of 37

Fig. 10A

The screenshot shows a Microsoft Internet Explorer window displaying the Centerpost web application. The URL in the address bar is <http://www.centerpost.com/Folio/Endpoint.asp>. The page title is "Centerpost | My smartmessages | Endpoint - Microsoft Internet Explorer".

The main content area displays a table titled "Endpoints" with the following data:

Nickname	Type	Description	Message Delivery
30	Fax	My fax machine	Normal
28	Pager	My pager/cell phone text endpoint	Normal
All Endpoints	Email (HTML)	My email endpoint	Normal
All Endpoints	SmartMessaging	My voice phone endpoint	Normal
All Endpoints	Text Pager / Phone	My voice phone endpoint	Normal
All Endpoints	Voice Phone		Normal

Below the table, there is a list of endpoint types with checkboxes:

- All Endpoints
- Email (HTML)
- Email (Text Only)
- Fax
- Pager
- SmartMessaging
- Text Pager / Phone
- Voice Phone

At the bottom right of the page, there is a footer with links: HOME | PRESS | JOBS | PRIVACY | LEGAL. It also states "Copyright 2000 | Centerpost Corporation".

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 26 of 37

*Fig. 10B*

[ Endpoint Details ] ~ 36

Endpoint Nicknames are used to identify endpoints. Enter a Nickname using either letters or numbers. Spaces cannot be used in the Nicknames.

Nickname [Home] Type Voice Phone \_\_\_\_\_  
Description \_\_\_\_\_ Phone number \_\_\_\_\_ . \_\_\_\_\_ Extension \_\_\_\_\_

Nickname Addressable  yes  no

default endpoint delivery [?]

Choose how to determine the default delivery settings used to route SmartMessages to this endpoint. You may change the delivery settings for existing SmartMessages in [ My SmartMessages | Switchboard ] at any time.

Use SmartRouting  
SmartRouting technology compares endpoint characteristics to SmartMessage characteristics to determine the default delivery route. This option will allow new SmartMessage types to be automatically routed to this endpoint.  
 Advanced Options: Prompt me to customize the delivery characteristics for this endpoint

None  
No SmartMessage types will ever be automatically routed to this endpoint.  
Only SmartMessage types routed to this endpoint in [ My SmartMessages | Switchboard ] will be delivered here

All  
By default, all SmartMessages will be delivered to this endpoint.

[ • ] centerpost

[ Back ] [ Next ] [ Cancel ] [ Print ] [ Refresh ] [ Previous ] [ Home ] [ Help ]

**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 27 of 37

Fig. 10C

[ Advanced Options ] 38

Please select the types of messages you would like to receive on this endpoint  
You can change the default routing behavior for an individual SmartMessage in [Delivery].

Example:  
If you do not want to receive private information on your work phone, leave sensitivity of Private blank.  
If you only want messages that require immediate attention on your cell phone, select all values for content, sensitivity, reach, frequency, and category, but only select minutes for immediacy.

Content	Sensitivity	Reach	Frequency	Immediacy	Category
<input type="checkbox"/> Response Required	<input type="checkbox"/> Private	<input type="checkbox"/> Individul	<input type="checkbox"/> Hourly	<input type="checkbox"/> Minutes	(All Categories) <input checked="" type="checkbox"/>
<input type="checkbox"/> Action Required	<input type="checkbox"/> Normal	<input type="checkbox"/> Group	<input type="checkbox"/> Daily	<input type="checkbox"/> Hours	Auctions <input type="checkbox"/>
<input type="checkbox"/> Information	<input type="checkbox"/> Public	<input type="checkbox"/> Mass Broadcast	<input type="checkbox"/> Weekly	<input type="checkbox"/> Days	Banking <input type="checkbox"/>
			<input type="checkbox"/> Monthly	<input type="checkbox"/> Weeks	Career <input type="checkbox"/>
			<input type="checkbox"/> Once	<input type="checkbox"/> Months	Community <input type="checkbox"/>
					Credit Card <input type="checkbox"/>

[HOME](#) | [PRESS](#) | [JOBS](#) | [PRIVACY](#) | [LEGAL](#)  
Copyright 2000 | Centerpost Corporation

Patent Application for Individual XML Message Processing Platform

**Inventors:** Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

**Sheet No.** 28 of 37

Fig. 10D

The screenshot shows a Microsoft Internet Explorer window with the following details:

**Title Bar:** Centerpost | My smartmessages | Details - Microsoft Internet Explorer

**Address Bar:** http://www.centerpost.com/Folio/endpointconfig.aspx?epType=bcpName=

**Content Area:**

company • post • Informants • my email | my smartmessages | my prefs • logout

company • post • Informants • my email | my smartmessages | my prefs • logout

**Form Fields (Visible):**

Setting	Value
endpoint nickname	Homephone
endpoint description	
phone number	773-296-6088
nickname addressing allowed	Yes: demopatient+Homephone@centerpost.com
default delivery	Use SmartRouting

**Buttons:**

- [ Save Endpoint ]
- [ Save ]
- [ Cancel ]

**Text Labels:**

- Click [ SAVE ] to keep these endpoint settings:
- [ Save Endpoint ] ~ 40

**Page Footer:**

HOME | PRESS | JOBS | PRIVACY | LEGAL  
Copyright 2000 | Centerpost Corporation

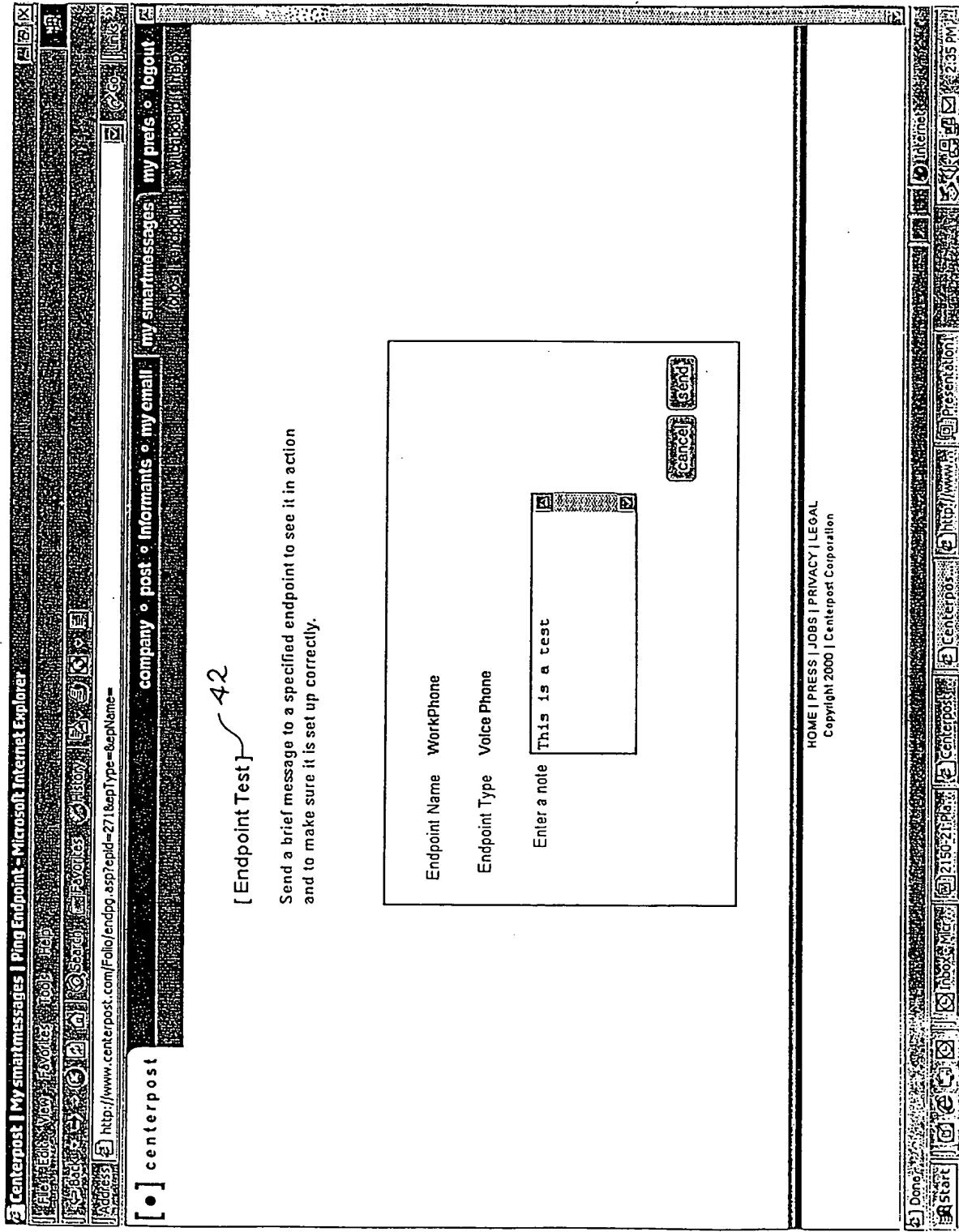
**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 29 of 37

Fig. 10E



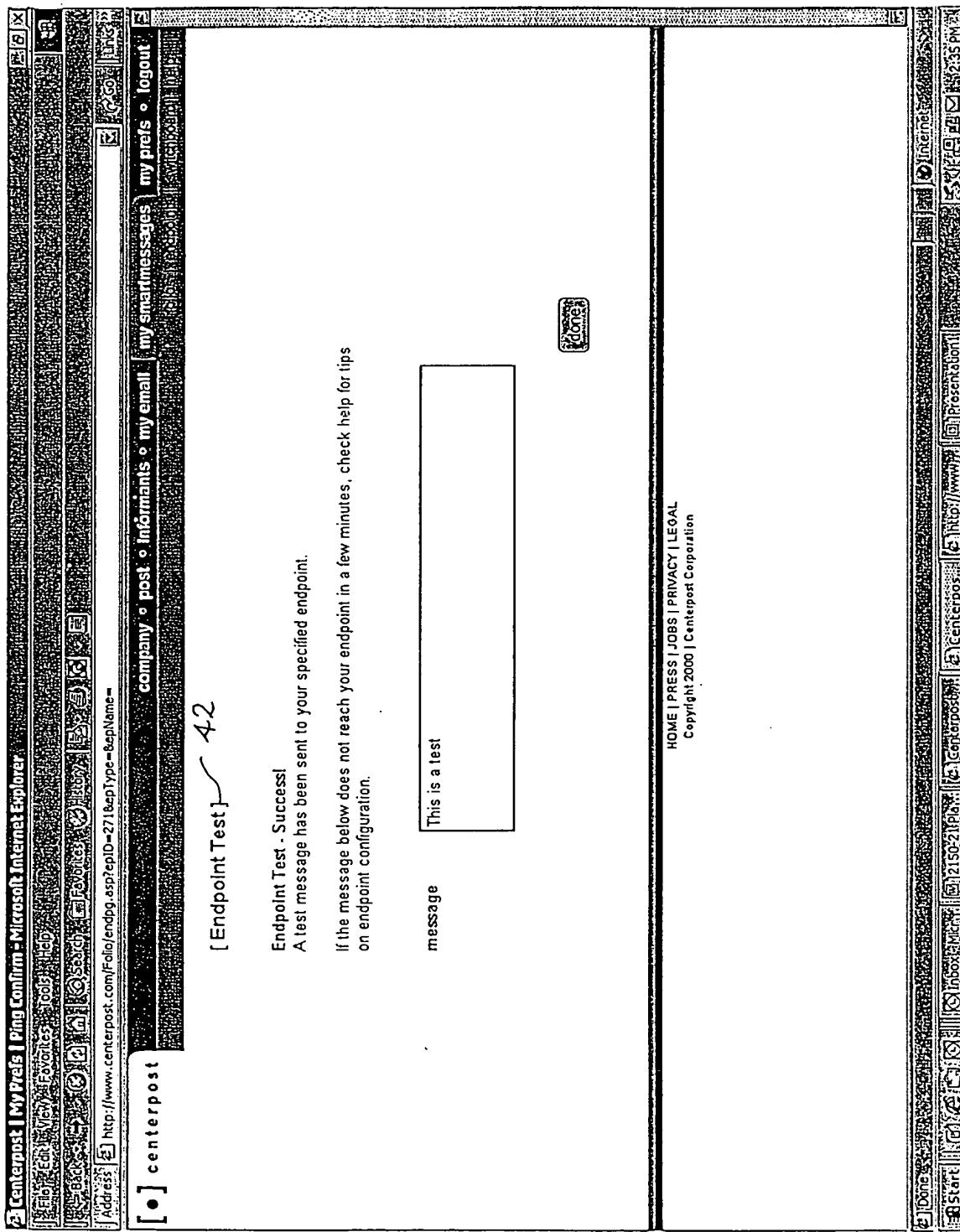
**Patent Application for Individual XML Message Processing Platform**

Inventors: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 30 of 37

*Fig. 10F*

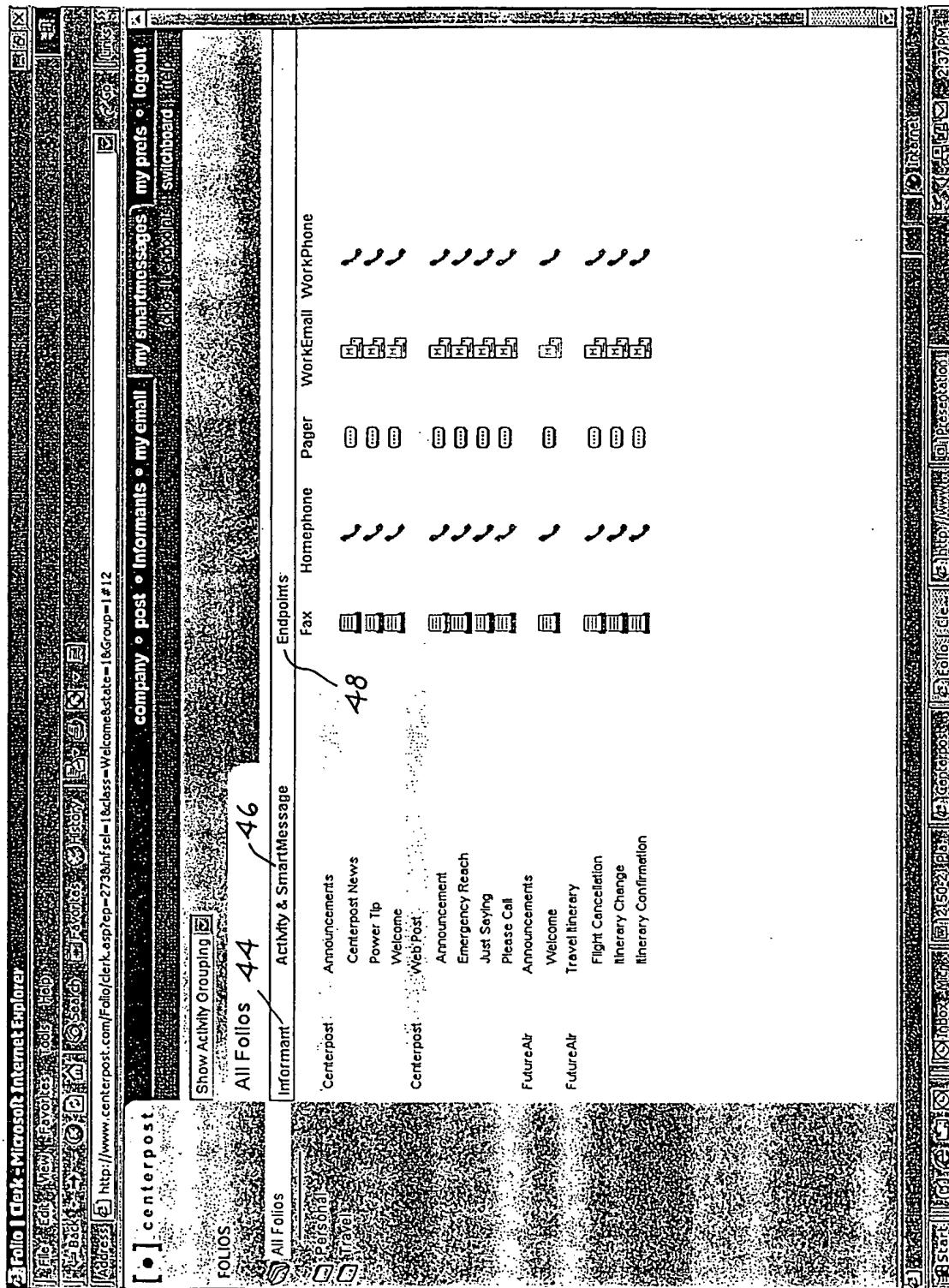


**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 31 of 37



*Fig. 11*

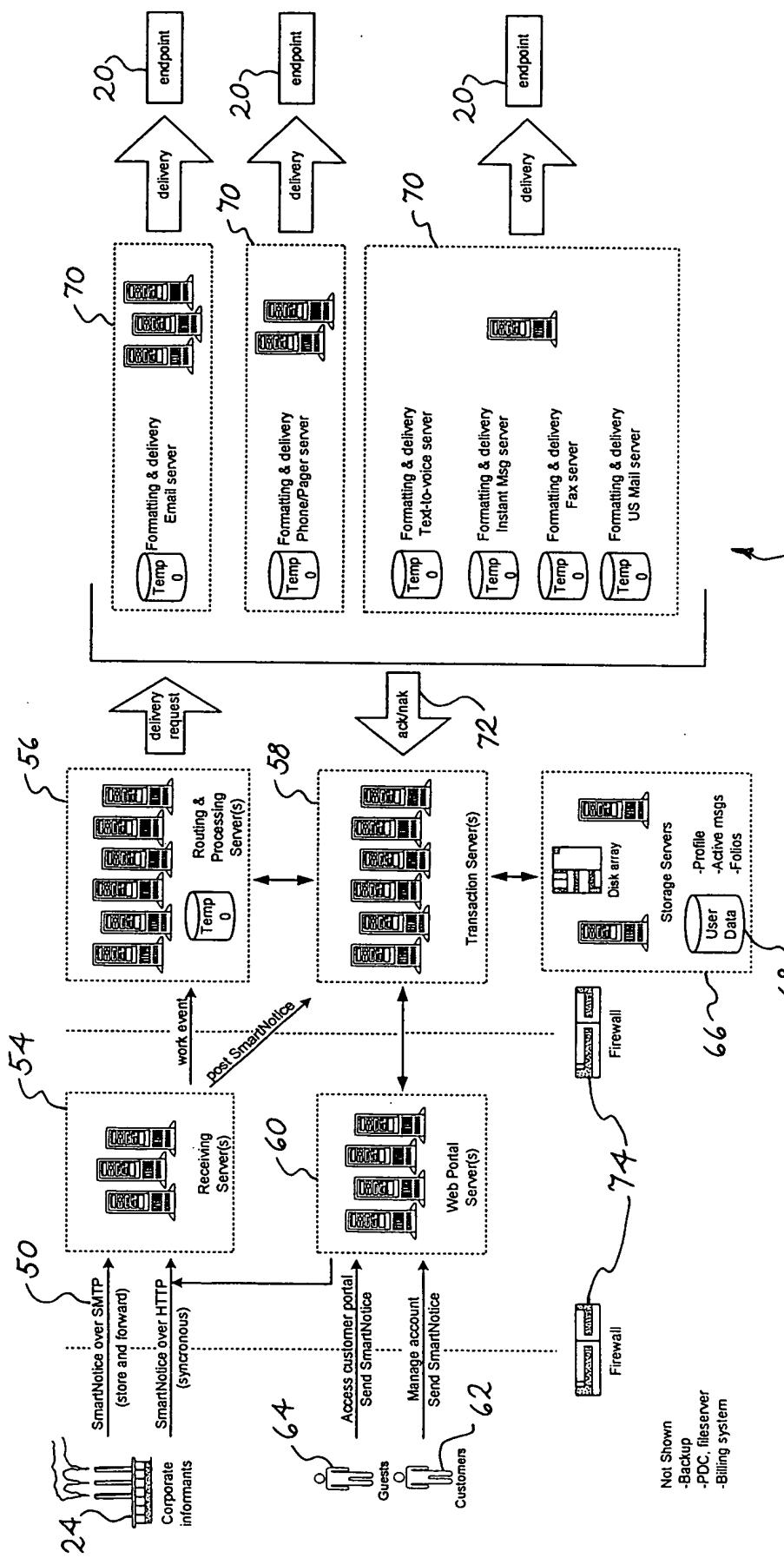
© 2000 Centerpost Corp.

Patent Application for Individual XML Message Processing Platform

**Inventors:** Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 32 of 37



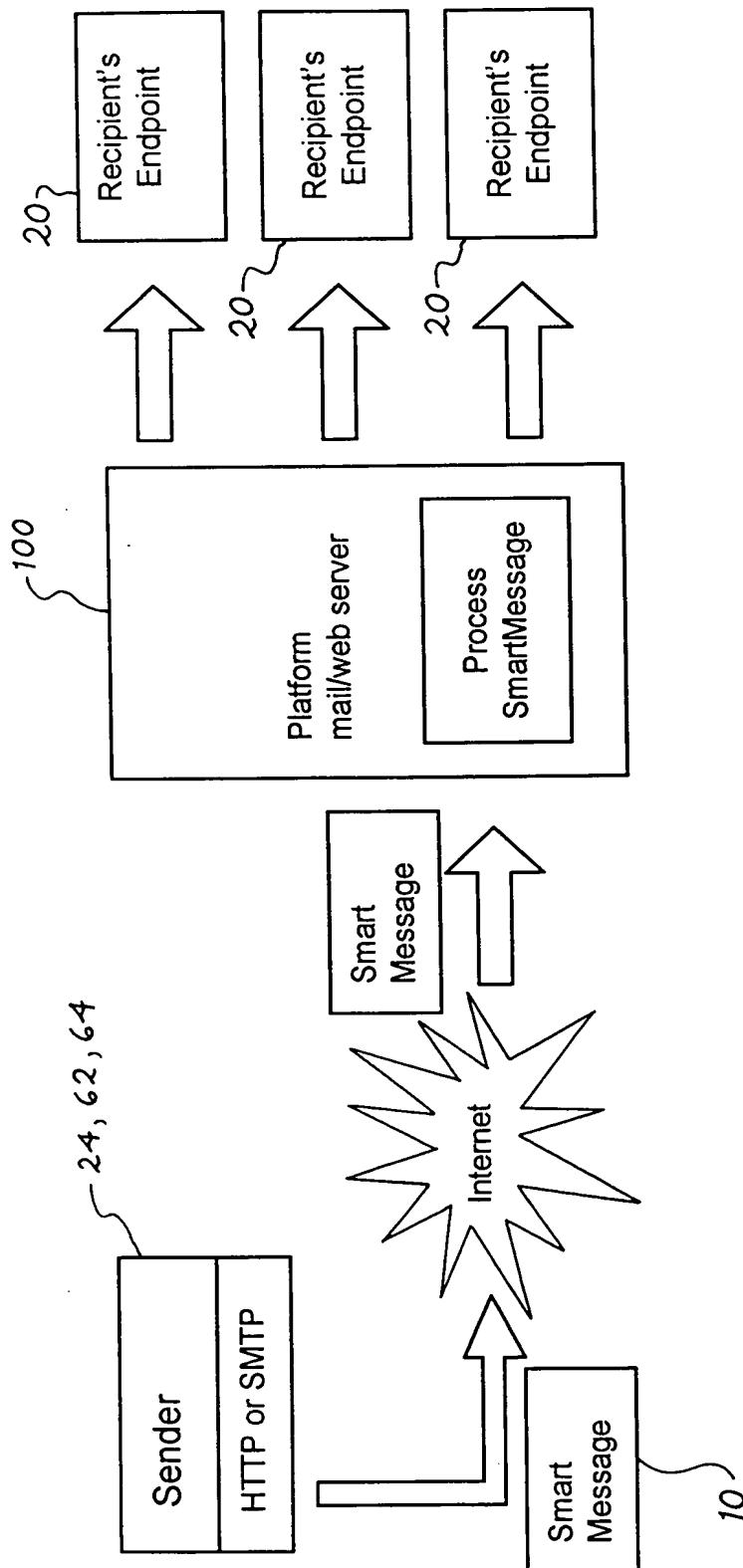
*Fig 12*

**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 33 of 37



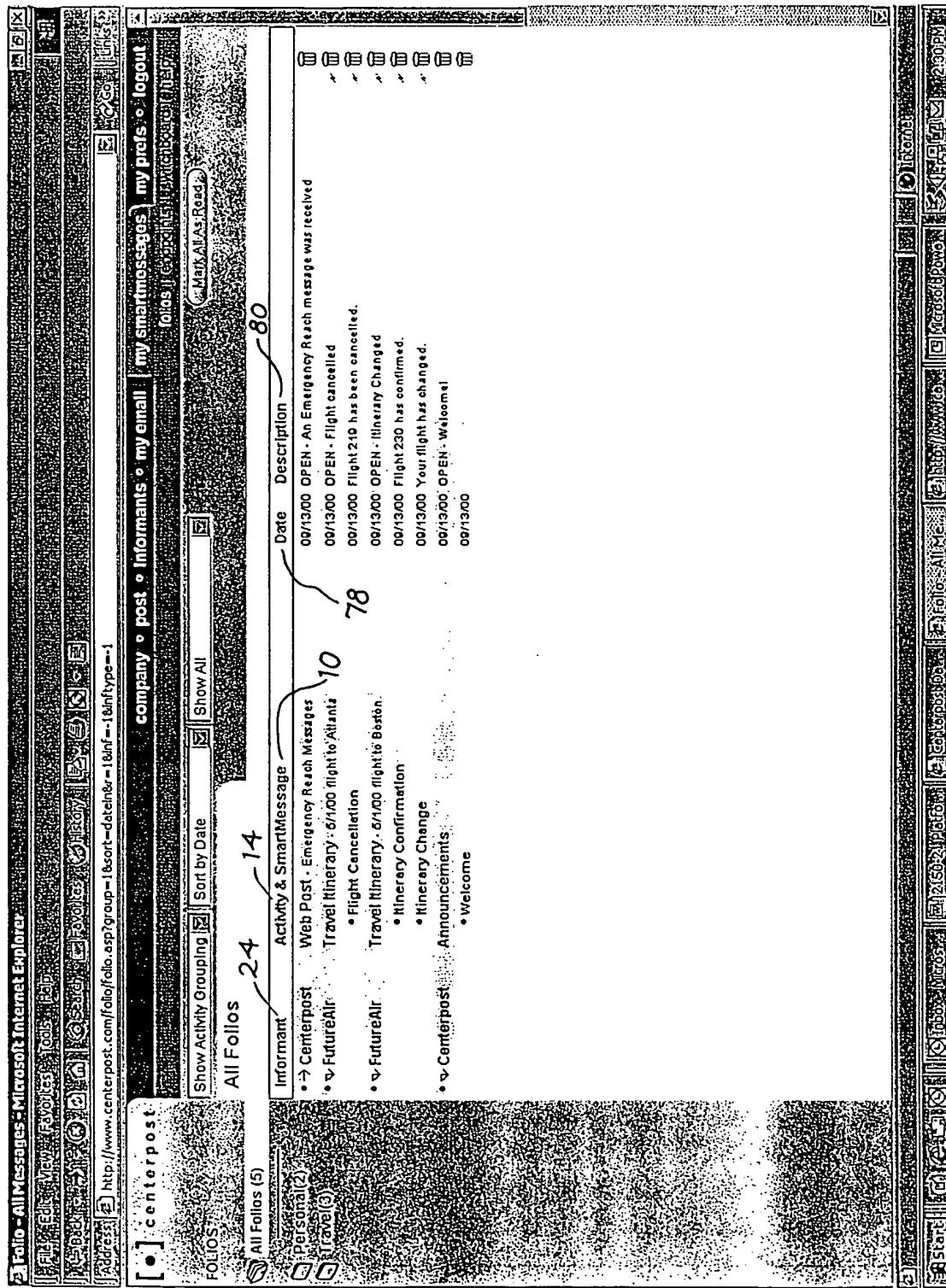
*Fig. 13*

**Patent Application for Individual XML Message Processing Platform**

**Inventors:** Juergen Stark, et al.

**Attorney Docket No.** 11822-8 **Serial No.** 09/661,499

**Sheet No.** 34 of 37



*Fig. 14*

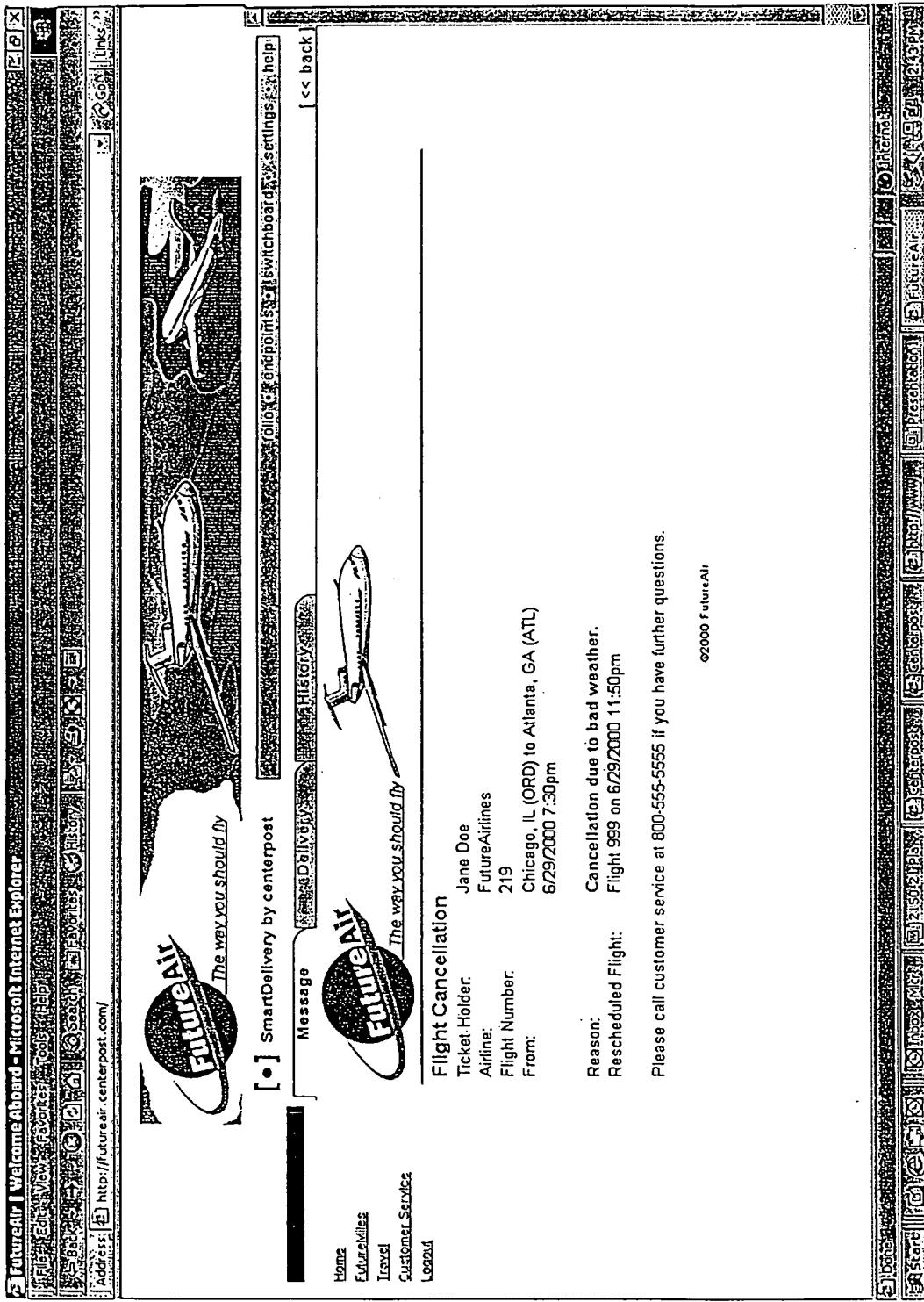
© 2000 Centerpost Corp.

Patent Application for Individual XML Message Processing Platform

**Inventor:** Juergen Stark, et al.

**Attorney Docket No. 11822-8 Serial No. 09/661,499**

**Sheet No. 35 of 37**



*Fig. 15A*

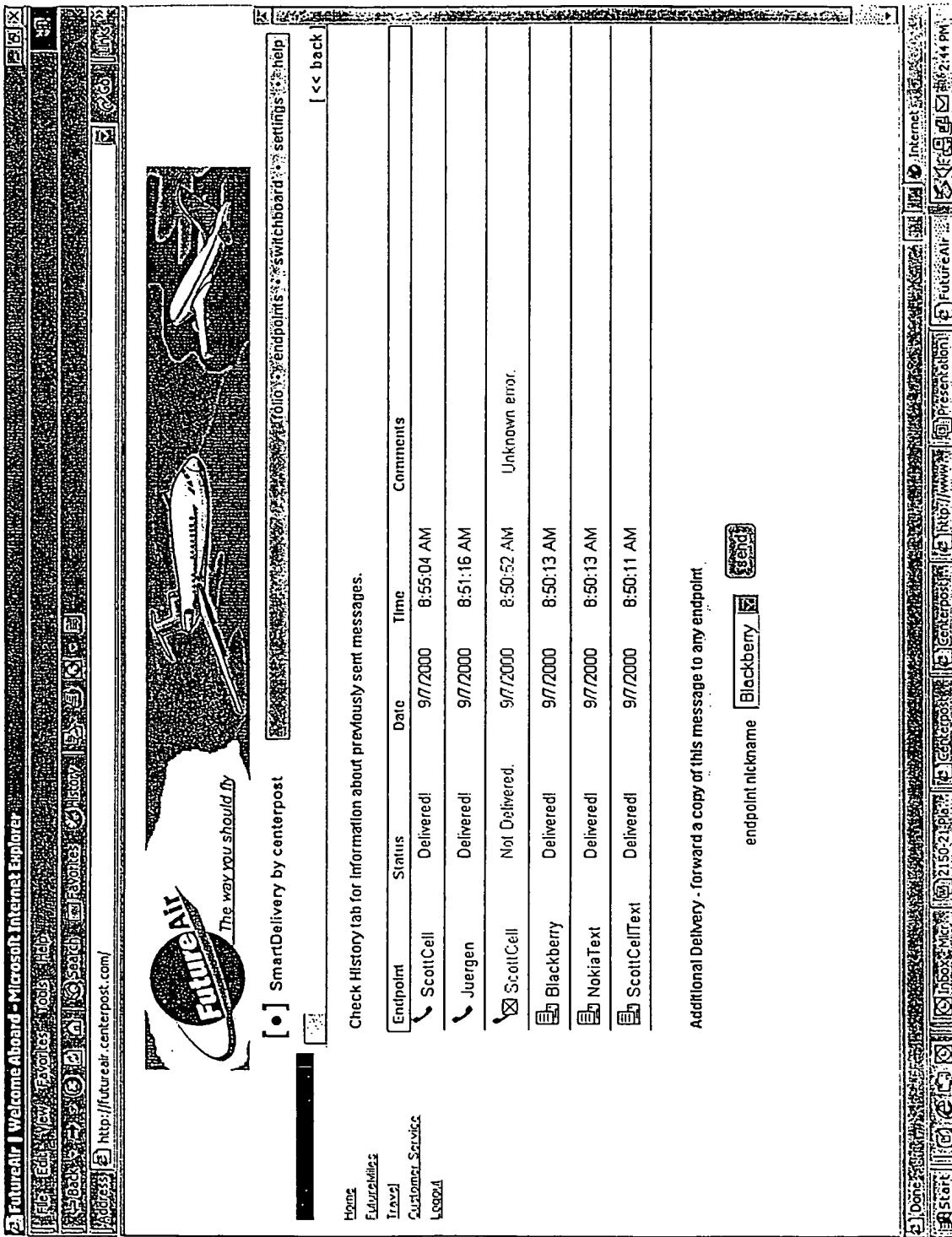
© 2000 Centerpost Corp.

Patent Application for Individual XML Message Processing Platform

**Inventors:** Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

**Sheet No.** 36 of 37



*Fig. 15B*

© 2000 Centerpost Corp.

**Patent Application for Individual XML Message Processing Platform**

Inventor: Juergen Stark, et al.

Attorney Docket No. 11822-8 Serial No. 09/661,499

Sheet No. 37 of 37

Screenshot of a Microsoft Internet Explorer browser window showing a flight tracking application for FutureAir.

The title bar reads "FutureAir | Welcome Aboard - Microsoft Internet Explorer".

The address bar shows the URL "http://futureair.centerpost.com/".

The page content includes:

- A large graphic of an airplane in flight.
- The FutureAir logo with the tagline "The way you should fly".
- A navigation menu with links: Home, FutureAirlines, Travel, Customer Service, and Local.
- A main menu with links: SmartDelivery by centerpost, Message, Delivery, and History.
- A table showing flight status:

	Date	Time	Details
Flight 219 has been cancelled.	8/31/2000	10:53:14 AM	[message] [delivery]
Flight 219 has been cancelled.	8/31/2000	10:51:30 AM	[message] [delivery]
Flight 219 has been cancelled.	8/31/2000	9:53:47 AM	[message] [delivery]
Flight 219 has been cancelled.	8/31/2000	9:33:19 AM	[message] [delivery]

A note at the bottom right says "Click on message or delivery to view message details".

The status bar at the bottom of the browser window displays the following information:

- Left side: Date (8/30/2000), Time (10:55:55 PM), and a list of tabs: Home, FutureAirlines, Travel, Customer Service, Local, SmartDelivery, Message, Delivery, and History.
- Right side: Date (8/30/2000), Time (10:55:55 PM), and a list of tabs: Home, FutureAirlines, Travel, Customer Service, Local, SmartDelivery, Message, Delivery, and History.

© 2000 Centerpost Corp.

Fig. 15C

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**